



Worldwide

## Exhibit A

home > nucleic acid electrophoresis > products > fragment analysis - e-gel®

### Nucleic Acid Electrophoresis

#### Products

- Fragment Analysis - E-Gel®
- DNA Band Extraction - CloneWell™
- Nucleic Acid Markers
- Nucleic Acid Stains
- Novex® gels for nucleic acid separation
- Safe Imager™ blue light transilluminator
- UltraPure™ Reagents

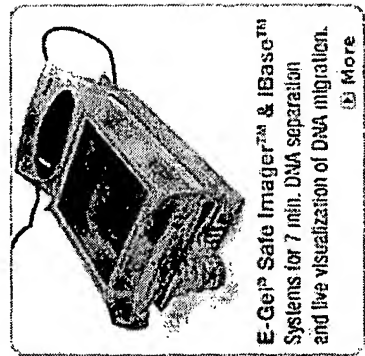
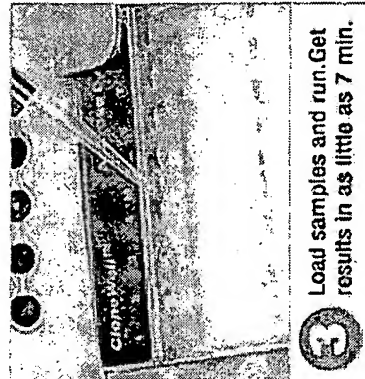
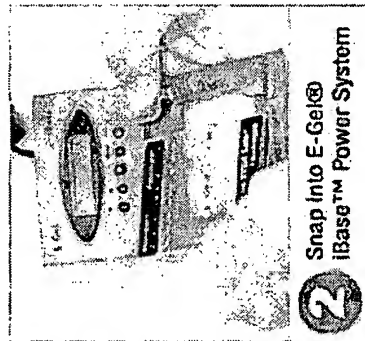
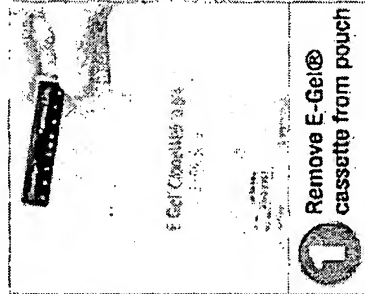
#### Resources

Want More Information?  
Sign up and stay informed.

Have a Product Question?  
Contact our Technical Support team.

Search Technical Resources  
Find the information you need.

## E-Gel® Nucleic Acid Analysis - Snap, load, run!



#### Links

- ① E-Gel® Selection
- ② Nucleic Acid Markers
- ③ E-Editor™ Software
- ④ E-Base® Power Supply
- ⑤ Safe Imager™ Blue-Light Transilluminator
- ⑥ SYBR® Safe DNA Stain

#### Videos

- ① E-Gel® CloneWell™ System
- ② E-Gel® Overview
- ③ E-Gel® 96 High Throughput Separation

#### E-Gel® CloneWell™ System

**E-Gel® CloneWell™ extractions**  
The most elegant method to extract a band from a gel



**E-Gel® Starter Paks**  
Everything you need to try E-Gels for yourself



**E-Gel® 48**  
For medium-throughput resolution of DNA fragments and PCR products.



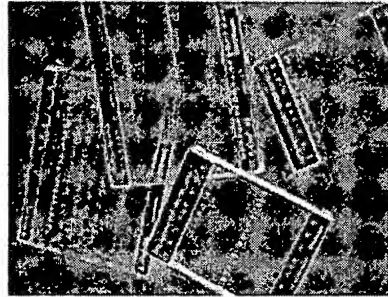
**E-Gel® 96**  
For high-throughput resolution of DNA fragments and PCR products.



There is an E-Gel® Pre-cast agarose gel for every throughput need.

Choose the right E-Gel® for your application.

Throughput	Samples per gel	E-Gel® type	Run time
Low throughput	12-16	E-Gel® single or double comb gels	15-30 min
Medium throughput	48	E-Gel® 48	20 min

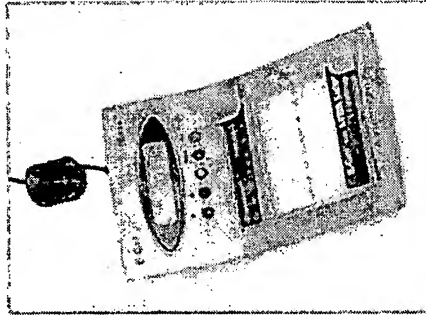


High throughput

96

E-Gel® 96

12 min



#### Single and double comb E-Gels:

Effortless, hassle-free and safe setup — and great results every time. Leave overrun gels, messy set-up and time-consuming prep work behind. You can even avoid the hazards of UV transillumination. E-Gel® agarose gels provide technologically advanced, highly efficient electrophoresis in an innovative system. Agarose electrophoresis using E-Gel® agarose gels is at least twice as fast as conventional hand-cast methods. With a variety of agarose percentages, choice of DNA stain, and resolution ranging from 20 bp to 10 kb, there's one to suit your specific needs. Analyzing plasmid preparations, PCR products, and restriction digests is as easy as Plug & Play.

- ▶ Choose by incorporated DNA Stain
- OR
- ▶ Choose by Agarose Concentration

DNA gel extraction with E-Gel® CloneWell™ SYBR® iBase™ Power System

Revolutionize how you perform agarose electrophoresis.

- Eliminate the need to cut out gel slices
- Avoid exposure to UV light
- Achieve higher cloning efficiencies

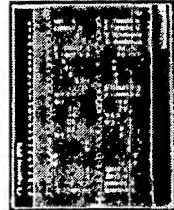
#### E-Gel® 48

E-Gel® 48 gels are ready-to-use, 48-well agarose gels designed for medium-throughput resolution of DNA fragments and PCR products. The gel design includes two rows each containing 24 sample and 2 molecular weight marker wells with a 3.2 cm run length. 4% E-Gel® 48 gels are made with high-resolution agarose for clear band resolution (see figure below) and distinct band separation (see table below). Loading E-Gel® 48 gels is fast and simple with a multi-channel pipettor, or use robotic liquid handling systems for increased throughput. E-Gel® 48 gels run in the Mother and Daughter E-Base™ devices in just 20 minutes.

Table 1-Distinguish between closely sized bands on 4% E-Gel® 48 gels

Band Size	Base Pair Separation between adjacent bands
5 bp - 40 bp	5 bp
40 bp - 80 bp	10 bp
80 bp - 175 bp	20 bp
175 bp - 300 bp	50 bp

Clear resolution on the E-Gel® 48 4% agarose gel



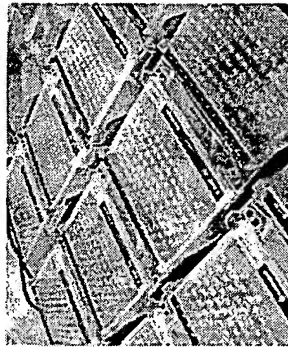
[Learn more](#)

300 bp - 600 bp      100 bp

[click to enlarge](#)

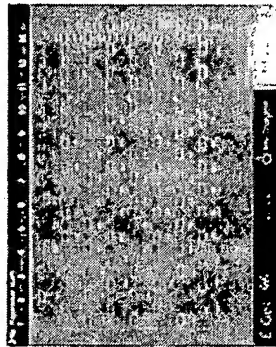
Agarose concentration	Resolution range	Run length	Incorporated DNA stain	Product name	Catalog #
1%	400 bp – 10 kb	3.2 cm	Ethidium Bromide	E-Gel® 48 8-Pak	G8008-01
2%	100 bp – 2 kb	3.2 cm	Ethidium Bromide	E-Gel® 48 8-Pak	G8008-02
4%	10 bp – 400 bp	3.2 cm	Ethidium Bromide	E-Gel® 48 High Resolution 8-Pak	G8008-04

E-Gel® 96



Turn routine agarose gel electrophoresis into an automated, high-throughput operation with the E-Gel® 96 system. Pre-cast E-Gel® 96 gels are ideal for analyzing multiple PCR products, plasmid preparations, restriction digests, and more. Fully automated, robot-compatible, and ready to put into action, the E-Gel® 96 system makes your high-throughput screening assignments as easy as Plug & Play.

2% E-Gel® 96 results

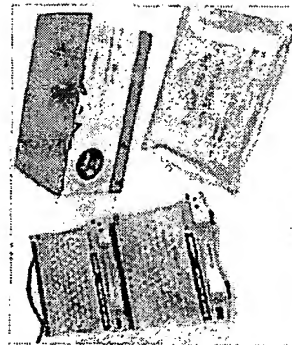


[click to enlarge](#)

Each E-Gel® 96 cassette contains 96 sample lanes and 8 marker lanes, staggered to provide a 1.6-cm run length with resolution between 100 bp and 10 kb (see table below). The patented, staggered-well format is compatible with 8-, 12-, or 96-tip robotic loading systems. Band identification and tracking is effortless, with fluorescent-labeled lane numbers that instantly transfer during photo documentation. And each cassette is marked with an EAN39 barcode (readable by most commercially available bar code readers) to provide precise and automated gel number tracking. E-Gel® 96 gels run in the Mother and Daughter E-Base™ devices in just 12 minutes.

E-Gel® 96 with SYBR® Safe

E-Gel® 96 gels come with a choice of either SYBR® Safe or ethidium bromide as the incorporated DNA stain. SYBR® Safe is a non-toxic, non-mutagenic DNA Gel stain that is safer for the environment. Gels can be viewed and photographed using standard UV equipment. For enhanced personal safety, avoid UV exposure and view SYBR® Safe-stained DNA on a [Safe Imager™ Blue-Light Transilluminator](#) (Cat. no. S37102).



[View the E-Gel® 96 demonstration video](#)

Choose the right E-Gel® 96 for your application

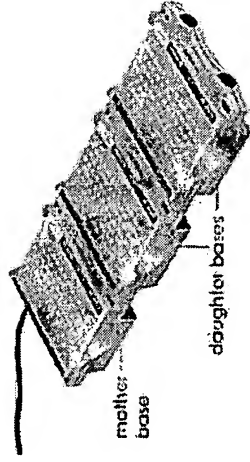
Agarose concentration	Resolution range	Run length	Incorporated DNA stain	Product name	Catalog #
1%	1 kb – 10 kb	1.6 cm	Ethidium Bromide	E-Gel® 96 8-Pak	<a href="#">G7008-01</a>
2%	100 bp – 2 kb	1.6 cm	Ethidium Bromide	E-Gel® 96 8-Pak	<a href="#">G7008-02</a>
2%	100 bp – 2 kb	1.6 cm	SYBR® Safe	E-Gel® 96 with SYBR® Safe 8-Pak	<a href="#">G7208-02</a>

[▶ E-Gel® 96 System Schematics \(PDF\)](#)  
[▶ Labware definitions for the Biomek\(R\)-FX robot](#)

E-Base® Integrated Power Supply

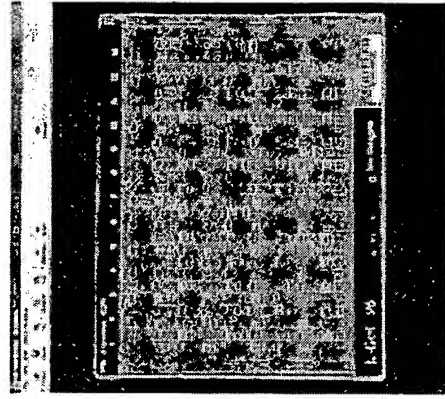
E-Gel® 48 and E-Gel® 96 gels run on a specially designed, space-saving system of Mother and Daughter E-Bases – each a combined gel base and power supply all in one. These integrated, all-inclusive power supplies have a small bench-top footprint measuring only 5.5 x 6 inches per base, and can be plugged directly into any standard electric outlet. Connect multiple Daughter E-Bases to the Mother E-base to create a multi-units system capable of running over twenty gels at once. Each base has a lighted LED, digital timer display, and power/program and timer button to indicate and control the electrophoresis process. Pre-set programs include a 12 minute DNA program for running E-gel® 96 gels and a 14-minute protein run program for running E-PAGE™ 96 gels. An extended 23 minute runtime is used to run E-Gel® 48 gels.

The Mother E-Base™ and Daughter E-Base™ combination



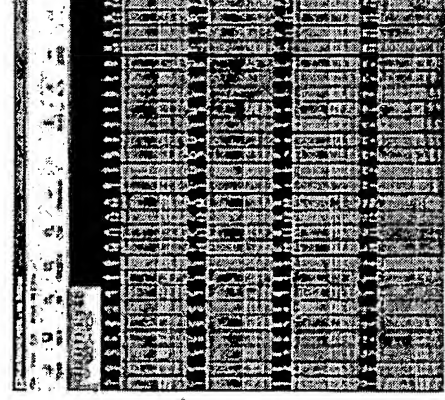
#### E-Editor™ 2.0 Software

Analysis of E-Gel® 48 and 96 results is fast and easy using the E-Editor™ 2.0 software<sup>A</sup>. The E-Editor™ 2.0 software takes the digital image from your gel and reconfigures the lanes into one re-grouped and aligned image for easy comparison, documentation, and reference back to the original plate coordinates and for quick identification of important results. The E-Editor™ 2.0 software is available FREE of charge with the purchase of E-Gel® 48 and 96 gels and related equipment.



Lanes from the E-Gel® 96 gel image are aligned using the E-Editor™ 2.0 software

- ▶ Download E-Editor™ 2.0 software and manual
- ▶ Contents and ordering information



Reconfigured E-Editor™ 2.0 gel data is easily analyzed

